

Title (en)

IMPLEMENT CONTROL BASED ON SURFACE-BASED COST FUNCTION AND NOISE VALUES

Title (de)

ARBEITSGERÄTESTEUERUNG AUF BASIS VON OBERFLÄCHENBASIERTEN FUNKTIONS- UND GERÄUSCHWERTEN

Title (fr)

COMMANDE D'OUTIL BASÉE SUR DES VALEURS DE FONCTION DE COÛT BASÉE SUR LA SURFACE ET DE BRUIT

Publication

EP 3394349 A1 20181031 (EN)

Application

EP 16879906 A 20161216

Priority

- US 201514978628 A 20151222
- US 2016067109 W 20161216

Abstract (en)

[origin: US9598844B1] An earthmoving machine comprises a sensor, an implement, and control architecture comprising a controller and configured to facilitate movement in response to a signal indicative of a measured implement position and an implement control value comprising a gain value associated with implement speed. The controller is programmed to execute machine readable instructions to generate a surface-based cost function (SBCF) value based on the signal, determine whether the SBCF value is acceptable to lock the gain value, and generate a noise value that is based on an error between the signal and a target signal when the SBCF value is unacceptable, determine whether the noise value is acceptable to lock the gain value, adjust the gain value to control the implement speed when the noise value is unacceptable until the SBCF value or the noise value is acceptable, and operate the machine based on the locked gain value.

IPC 8 full level

E02F 3/84 (2006.01); **E02F 9/20** (2006.01); **G05B 19/18** (2006.01); **G05B 19/402** (2006.01)

CPC (source: EP US)

E02F 1/00 (2013.01 - US); **E02F 3/845** (2013.01 - EP US); **E02F 3/847** (2013.01 - EP US); **E02F 9/2041** (2013.01 - EP US); **E02F 9/262** (2013.01 - EP US); **G07C 5/02** (2013.01 - US); **E02F 3/32** (2013.01 - US); **E02F 3/435** (2013.01 - US); **E02F 3/7609** (2013.01 - US); **E02F 3/844** (2013.01 - US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

US 9598844 B1 20170321; AU 2016378393 A1 20180712; AU 2016378393 B2 20200813; CA 3009635 A1 20170629; EP 3394349 A1 20181031; EP 3394349 A4 20190807; EP 3394349 B1 20201202; JP 2019501317 A 20190117; JP 6948329 B2 20211013; US 10011974 B2 20180703; US 2017175360 A1 20170622; WO 2017112534 A1 20170629

DOCDB simple family (application)

US 201514978628 A 20151222; AU 2016378393 A 20161216; CA 3009635 A 20161216; EP 16879906 A 20161216; JP 2018533046 A 20161216; US 2016067109 W 20161216; US 201715426624 A 20170207